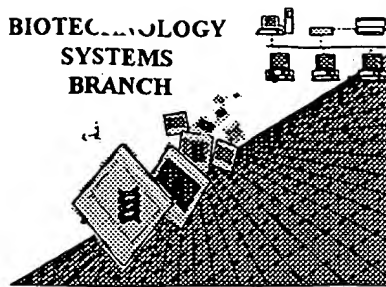


## **RAW SEQUENCE LISTING** **ERROR REPORT**

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



05-90  
1011

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/775,840A

Source: OIPE

Date Processed by STIC: 10/26/2001

#51/2

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

**FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.**

**FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.**

**PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:**

### **Checker Version 3.0**

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

**Checker Version 3.0 can be down loaded from the USPTO website at the following address:**

**<http://www.uspto.gov/web/offices/pac/checker>**

# Raw Sequence Listing Error Summary

## ERROR DETECTED

## SUGGESTED CORRECTION

SERIAL NUMBER: 09/275,840A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos  
The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2      Invalid Line Length  
The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3      Misaligned Amino  
    Numbering  
The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4      Non-ASCII  
The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5      Variable Length  
Sequence(s)      contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6      PatentIn 2.0  
    "bug"  
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)     . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7      Skipped Sequences  
    (OLD RULES)  
Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped  
  
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8      Skipped Sequences  
    (NEW RULES)  
Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000
- 9      Use of n's or Xaa's  
    (NEW RULES)  
Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10      Invalid <213>  
    Response  
Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 ✓ Use of <220>  
Sequence(s) 1-12 missing the <220> "Feature" and associated numeric identifiers and responses.  
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12      PatentIn 2.0  
    "bug"  
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13      Misuse of n  
n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

OIPE

## RAW SEQUENCE LISTING

DATE: 10/26/2001

PATENT APPLICATION: US/09/775,840A

TIME: 13:18:04 *pg 1-3*

Input Set : A:\ES.txt

Output Set: N:\CRF3\10262001\I775840A.raw

**Does Not Comply  
Corrected Diskette Needed**

3 <110> APPLICANT: Dwyer, Brian P.  
 4 Havens, John R.  
 6 <120> TITLE OF INVENTION: WATER-SOLUBLE, FLUORESCENT, & ELECTROPHORETICALLY MOBILE  
 PEPTIDIC  
 7 SUBSTRATES FOR ENZYMATIC REACTIONS AND METHODS FOR THEIR USE IN HIGH-THROUGHPUT  
 8 SCREENING ASSAYS  
 10 <130> FILE REFERENCE: Patrick Eagleman - NANOGEN 257/245  
 12 <140> CURRENT APPLICATION NUMBER: US/09/775,840A  
 12 <141> CURRENT FILING DATE: 2001-01-31  
 12 <160> NUMBER OF SEQ ID NOS: 12  
 14 <170> SOFTWARE: PatentIn version 3.0  
 16 <210> SEQ ID NO: 1  
 17 <211> LENGTH: 14  
 18 <212> TYPE: PRT  
 19 <213> ORGANISM: ARTIFICIAL SEQUENCE  
 21 <220> FEATURE:  
 22 <221> NAME/KEY: MOD\_RES  
 23 <222> LOCATION: (1)..(1)  
 24 <223> OTHER INFORMATION: SYNTHETIC: Res 1 S-linked to Texas Red-Jeffamine  
 26 <400> SEQUENCE: 1  
 28 Cys Glu Glu Glu Phe Ile Tyr Gly Ala Phe Lys Lys Lys Lys  
 29 1 5 10  
 31 <210> SEQ ID NO: 2  
 32 <211> LENGTH: 14  
 33 <212> TYPE: PRT  
 34 <213> ORGANISM: ARTIFICIAL SEQUENCE  
 36 <220> FEATURE:  
 37 <221> NAME/KEY: MOD\_RES  
 38 <222> LOCATION: (1)..(1)  
 39 <223> OTHER INFORMATION: SYNTHETIC: Res 1 S-linked to Texas Red-Jeffamine  
 41 <220> FEATURE:  
 42 <221> NAME/KEY: MOD\_RES  
 43 <222> LOCATION: (7)..(7)  
 44 <223> OTHER INFORMATION: PHOSPHORYLATION  
 46 <400> SEQUENCE: 2  
 48 Cys Glu Glu Glu Phe Ile Tyr Gly Ala Phe Lys Lys Lys Lys  
 49 1 5 10  
 51 <210> SEQ ID NO: 3  
 52 <211> LENGTH: 13  
 53 <212> TYPE: PRT  
 54 <213> ORGANISM: ARTIFICIAL SEQUENCE  
 56 <220> FEATURE:  
 57 <221> NAME/KEY: MOD\_RES  
 58 <222> LOCATION: (1)..(1)  
 59 <223> OTHER INFORMATION: ACETYLTATION  
 61 <220> FEATURE:  
 62 <221> NAME/KEY: MOD\_RES  
 63 <222> LOCATION: (1)..(1)

*(see item 11 on Ena Summary Sheet,  
 source of genetic material needs  
 to be explained in 22207-22237  
 section ON ITS OWN LINE*

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/775,840A

DATE: 10/26/2001

TIME: 13:18:05

Input Set : A:\ES.txt

Output Set: N:\CRF3\10262001\I775840A.raw

64 <223> OTHER INFORMATION: SYNTHETIC: Res 1 S-linked to Bodipy Texas Red-Jeffamine  
66 <400> SEQUENCE: 3  
68 Cys Glu Glu Phe Ile Tyr Gly Ala Phe Lys Lys Lys Lys  
69 1 5 10  
71 <210> SEQ ID NO: 4  
72 <211> LENGTH: 13  
73 <212> TYPE: PRT  
74 <213> ORGANISM: ARTIFICIAL SEQUENCE  
76 <220> FEATURE:  
77 <221> NAME/KEY: MOD\_RES  
78 <222> LOCATION: (1)..(1)  
79 <223> OTHER INFORMATION: SYNTHETIC: Res 1 S-linked to Bodipy Texas Red-Jeffamine  
81 <220> FEATURE:  
82 <221> NAME/KEY: MOD\_RES  
83 <222> LOCATION: (1)..(1)  
84 <223> OTHER INFORMATION: ACETYLATION  
86 <400> SEQUENCE: 4  
88 Cys Glu Glu Phe Ile Tyr Gly Ala Phe Arg Arg Arg Arg  
89 1 5 10  
91 <210> SEQ ID NO: 5  
92 <211> LENGTH: 13  
93 <212> TYPE: PRT  
94 <213> ORGANISM: ARTIFICIAL SEQUENCE  
96 <220> FEATURE:  
97 <221> NAME/KEY: MOD\_RES  
98 <222> LOCATION: (1)..(1)  
99 <223> OTHER INFORMATION: ACETYLATION  
101 <220> FEATURE:  
102 <221> NAME/KEY: MOD\_RES  
103 <222> LOCATION: (1)..(1)  
104 <223> OTHER INFORMATION: Res 1 S-linked to Texas Red-Jeffamine  
106 <400> SEQUENCE: 5  
108 Cys Glu Glu Phe Ile Tyr Gly Ala Phe Lys Lys Lys Lys  
109 1 5 10  
111 <210> SEQ ID NO: 6  
112 <211> LENGTH: 7  
113 <212> TYPE: PRT  
114 <213> ORGANISM: ARTIFICIAL SEQUENCE  
W--> 116 <220> FEATURE:  
W--> 116 <223> OTHER INFORMATION:  
116 <400> SEQUENCE: 6  
118 Phe Ile Tyr Gly Ala Phe Lys  
119 1 5  
121 <210> SEQ ID NO: 7  
122 <211> LENGTH: 10  
123 <212> TYPE: PRT  
124 <213> ORGANISM: ARTIFICIAL SEQUENCE  
W--> 126 <220> FEATURE:  
W--> 126 <223> OTHER INFORMATION:

## RAW SEQUENCE LISTING

DATE: 10/26/2001

PATENT APPLICATION: US/09/775,840A

TIME: 13:18:05

Input Set : A:\ES.txt

Output Set: N:\CRF3\10262001\I775840A.raw

```

126 <400> SEQUENCE: 7
128 Cys Ala Ala Phe Ile Tyr Gly Ala Phe Lys
129 1          5          10
131 <210> SEQ ID NO: 8
132 <211> LENGTH: 14
133 <212> TYPE: PRT
134 <213> ORGANISM: ARTIFICIAL SEQUENCE
W--> 136 <220> FEATURE:
W--> 136 <223> OTHER INFORMATION:
136 <400> SEQUENCE: 8
138 Cys Glu Glu Glu Phe Ile Tyr Gly Ala Phe Lys Lys Lys Lys
139 1          5          10
141 <210> SEQ ID NO: 9
142 <211> LENGTH: 13
143 <212> TYPE: PRT
144 <213> ORGANISM: ARTIFICIAL SEQUENCE
146 <220> FEATURE:
147 <221> NAME/KEY: MOD_RES
148 <222> LOCATION: (1)..(1)
149 <223> OTHER INFORMATION: ACETYLATION
151 <400> SEQUENCE: 9
153 Cys Glu Glu Phe Ile Tyr Gly Ala Phe Lys Lys Lys Lys
154 1          5          10
156 <210> SEQ ID NO: 10
157 <211> LENGTH: 7
158 <212> TYPE: PRT
159 <213> ORGANISM: ARTIFICIAL SEQUENCE
W--> 161 <220> FEATURE:
W--> 161 <223> OTHER INFORMATION:
161 <400> SEQUENCE: 10
163 Leu Arg Arg Ala Ser Leu Gly
164 1          5
166 <210> SEQ ID NO: 11
167 <211> LENGTH: 7
168 <212> TYPE: PRT
169 <213> ORGANISM: ARTIFICIAL SEQUENCE
171 <220> FEATURE:
172 <221> NAME/KEY: MOD_RES
173 <222> LOCATION: (1)..(1)
174 <223> OTHER INFORMATION: SYNTHETIC: Res 1 Leucine modifide with Texas Red
176 <400> SEQUENCE: 11
178 Leu Arg Arg Ala Ser Leu Gly
179 1          5
181 <210> SEQ ID NO: 12
182 <211> LENGTH: 13
183 <212> TYPE: PRT
184 <213> ORGANISM: ARTIFICIAL SEQUENCE
186 <220> FEATURE:
187 <221> NAME/KEY: MOD_RES

```

## RAW SEQUENCE LISTING

DATE: 10/26/2001

PATENT APPLICATION: US/09/775,840A

TIME: 13:18:05

Input Set : A:\ES.txt

Output Set: N:\CRF3\10262001\I775840A.raw

188 &lt;222&gt; LOCATION: (1)..(1)

189 &lt;223&gt; OTHER INFORMATION: ACETYLATION

191 &lt;400&gt; SEQUENCE: 12

193 Cys Glu Glu Phe Ile Tyr Gly Ala Phe Arg Arg Arg Arg

194 1                      5                      10

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/775,840A

DATE: 10/26/2001

TIME: 13:18:06

Input Set : A:\ES.txt

Output Set: N:\CRF3\10262001\I775840A.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No  
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:116 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:116 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:126 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:126 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:136 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:136 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:161 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:161 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: